

FIG. 1

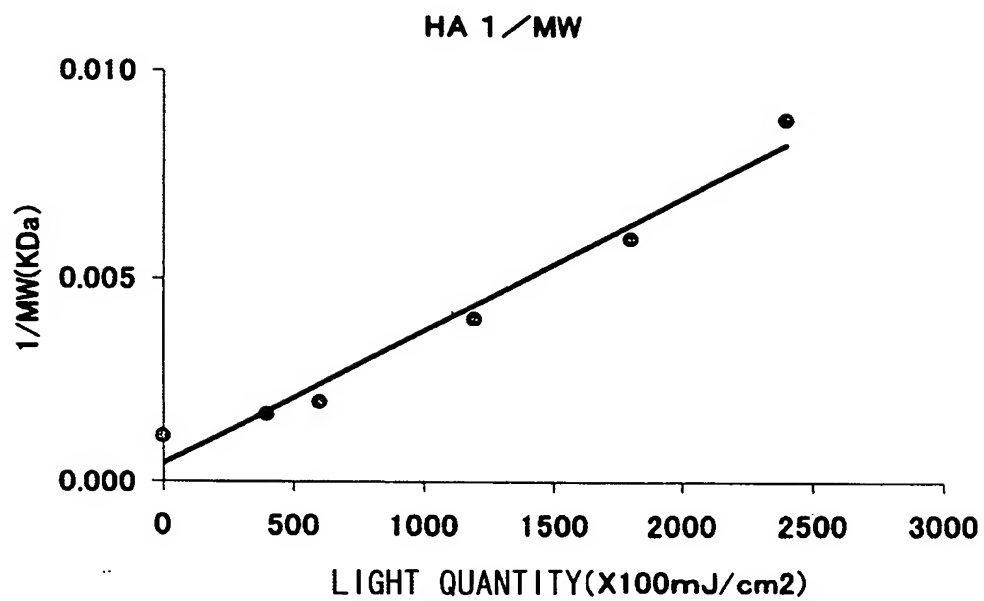


FIG. 2

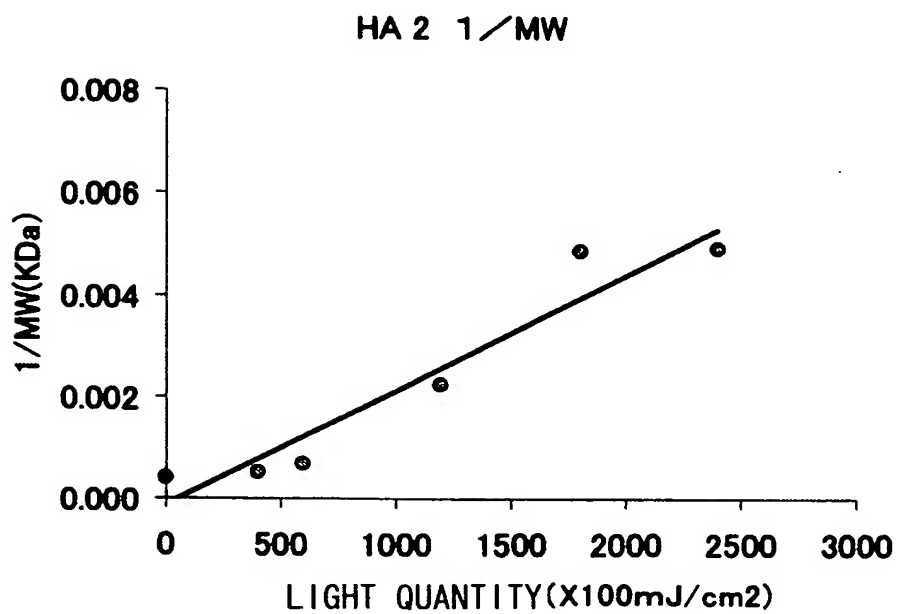


FIG. 3

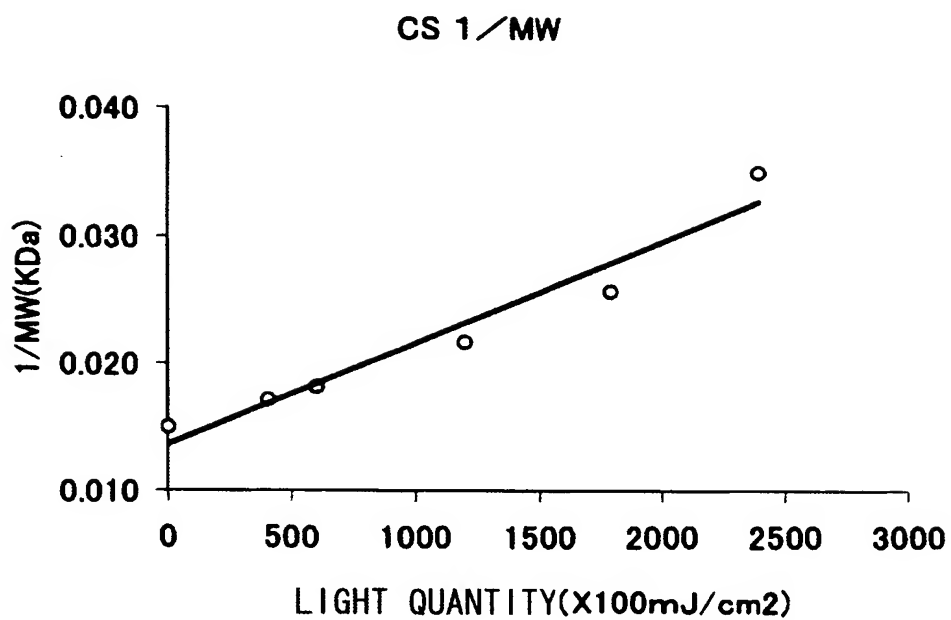


FIG. 4

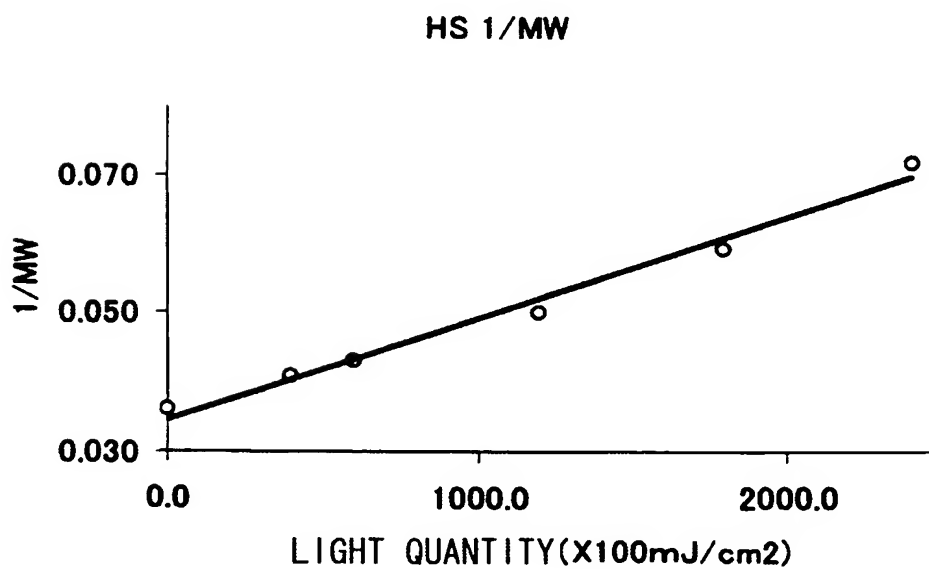


FIG. 5

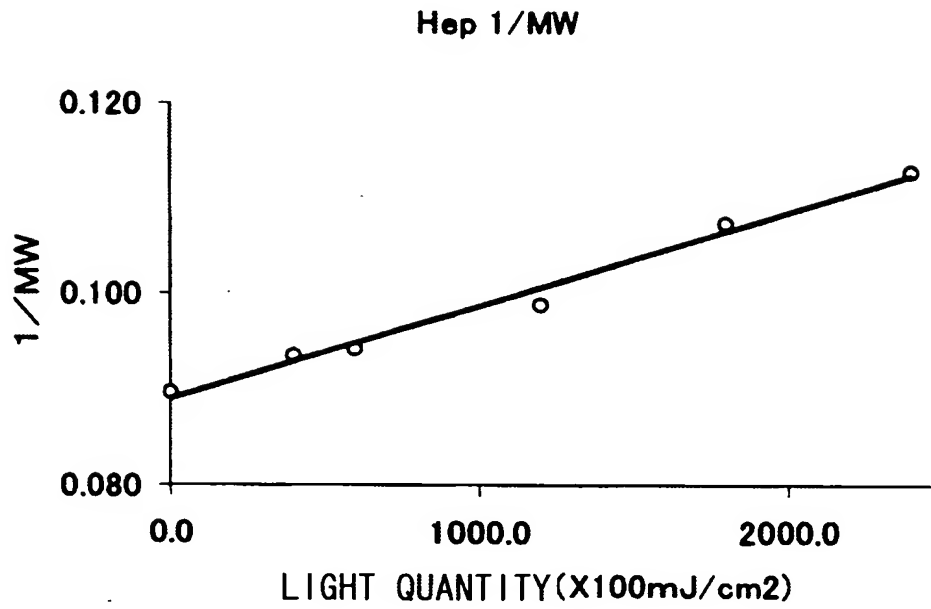


FIG. 6

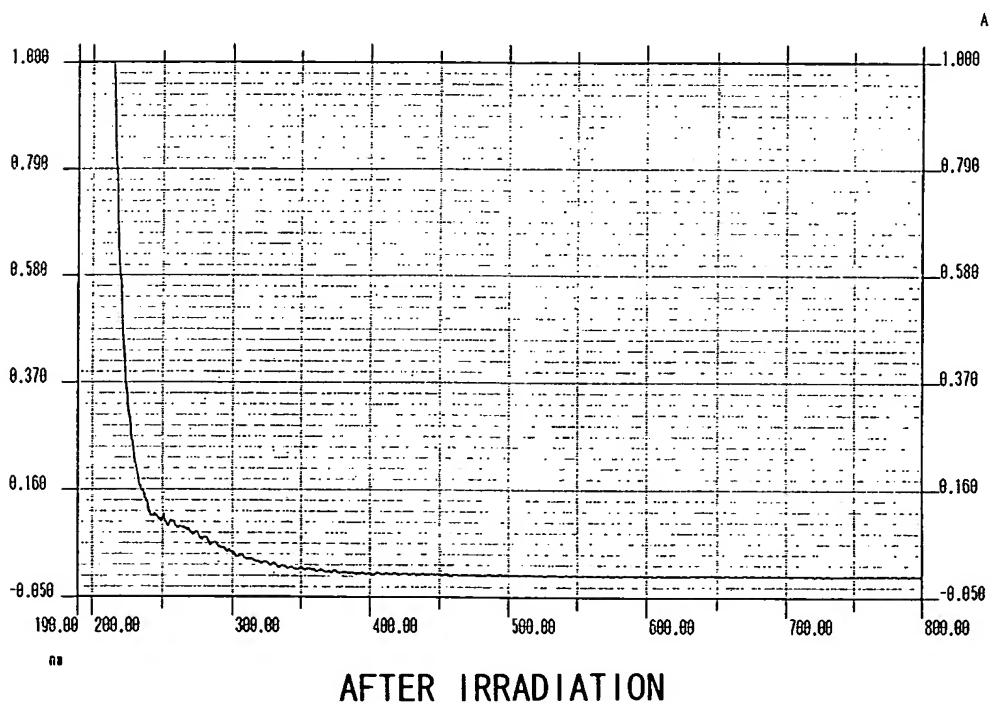
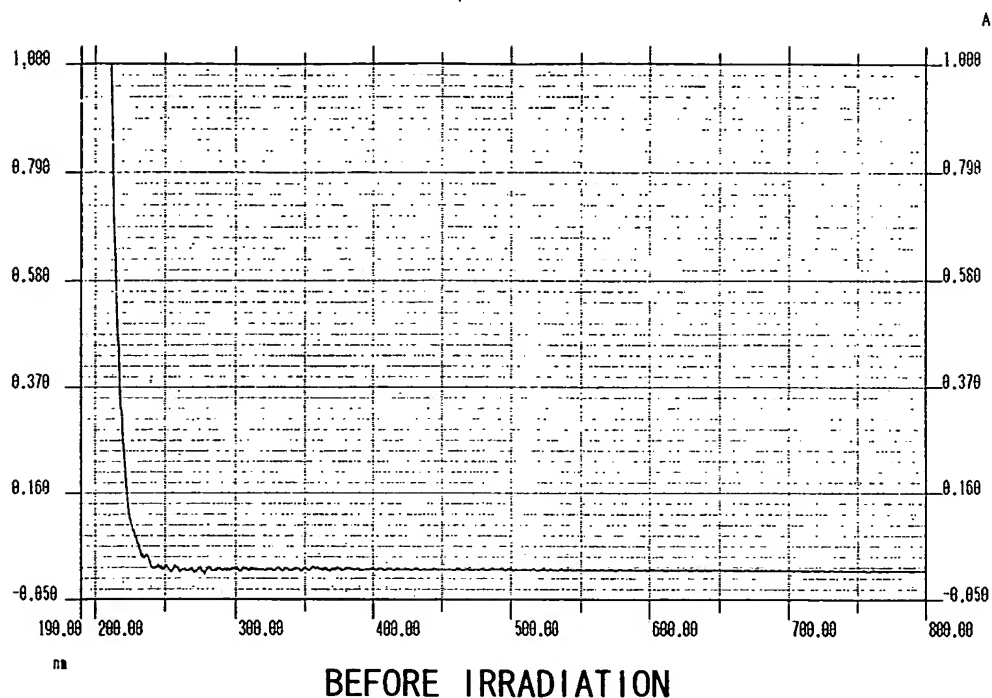


FIG. 7

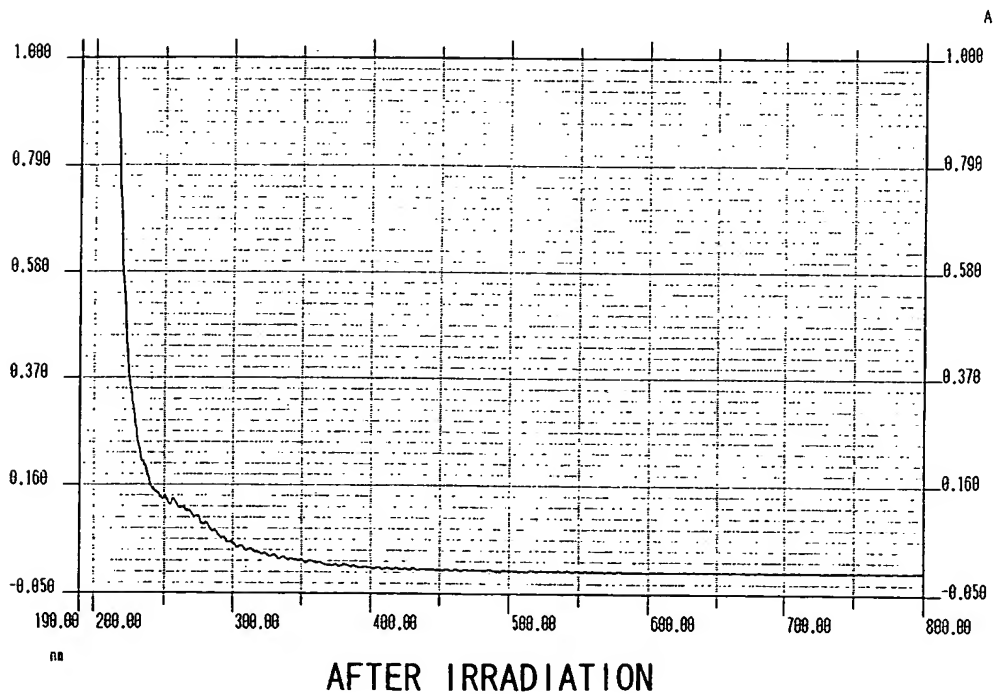
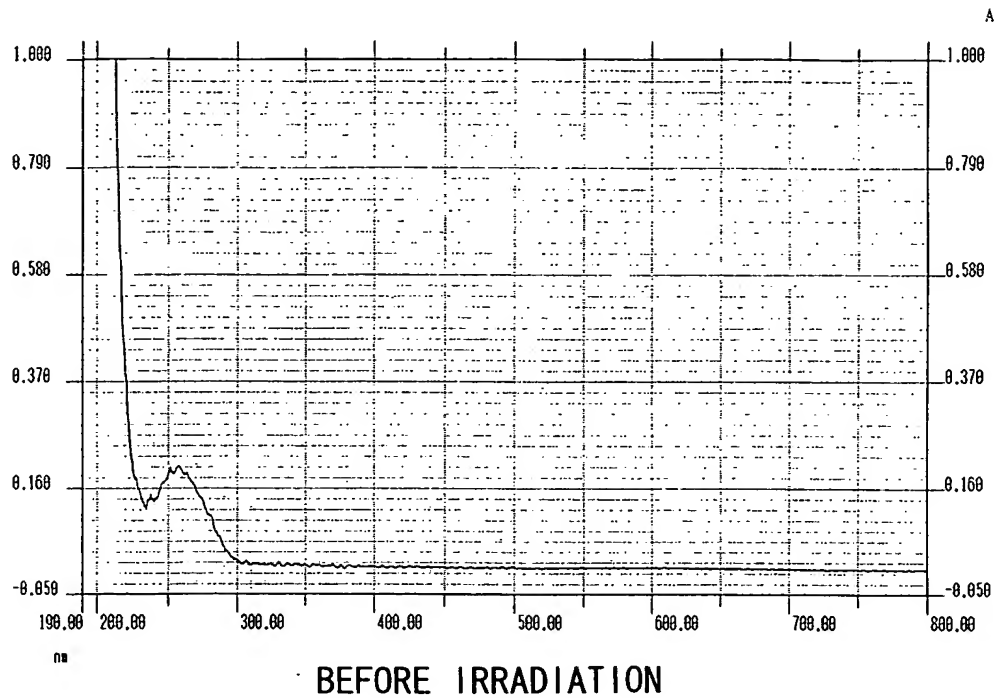


FIG. 8

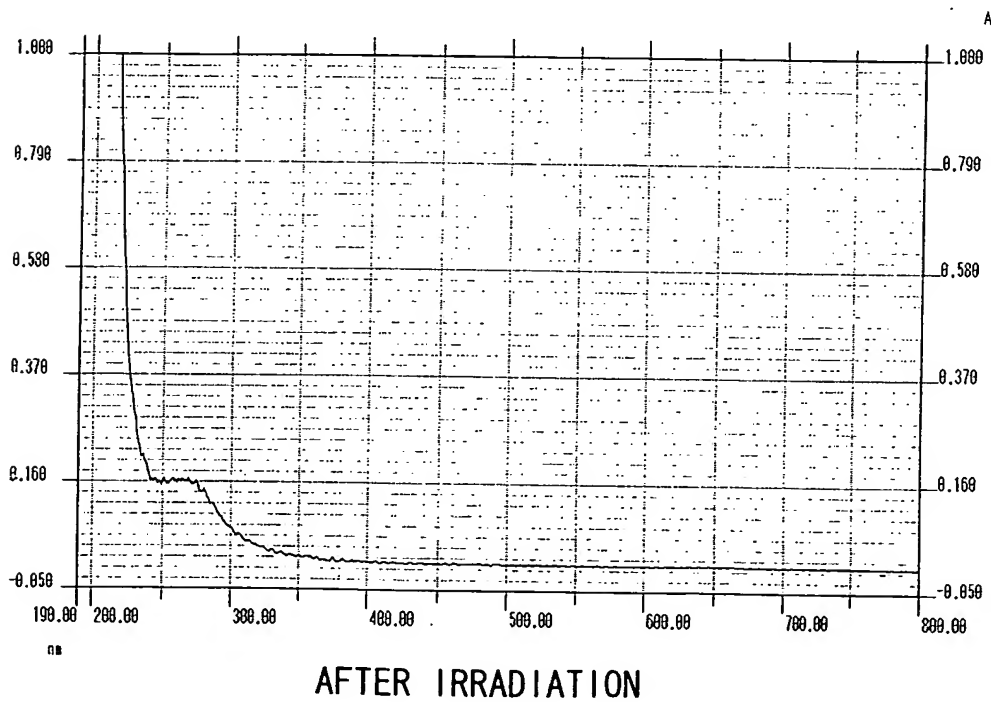
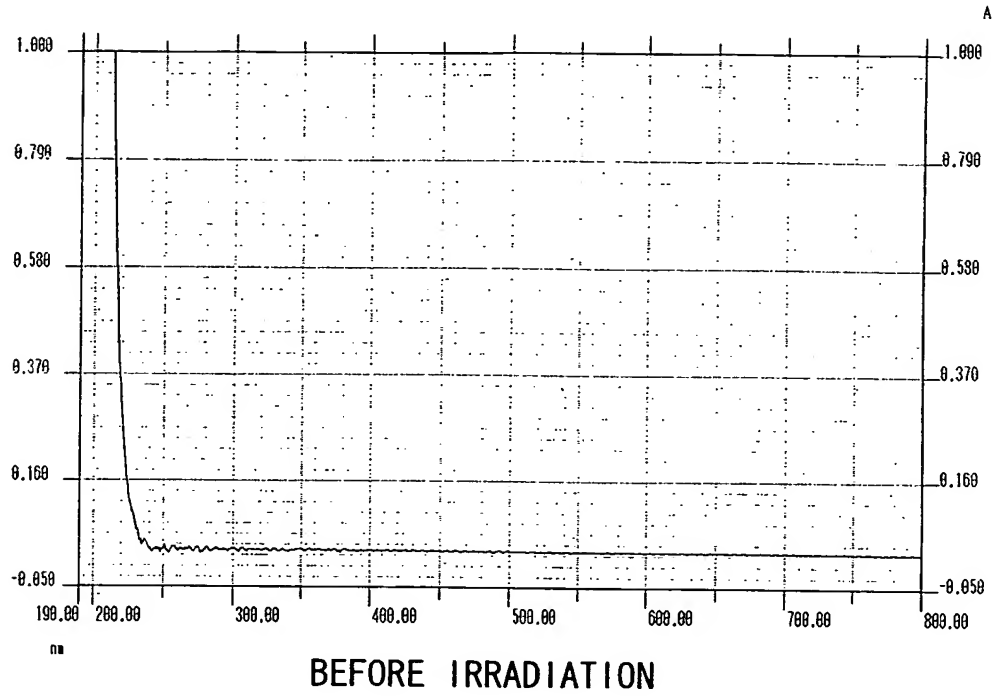


FIG. 9

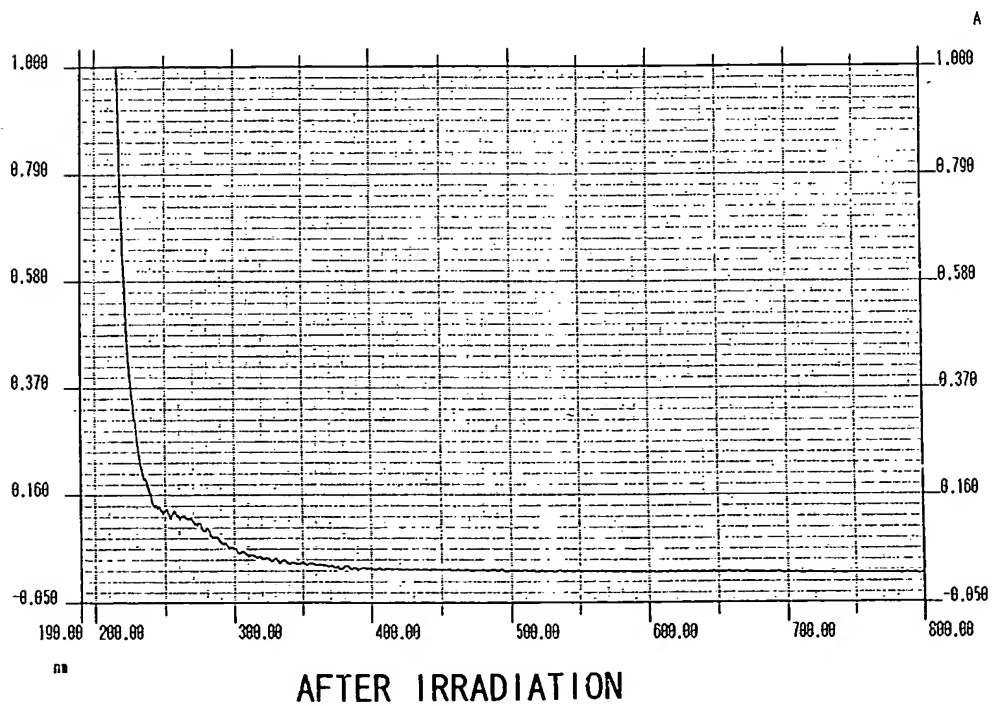
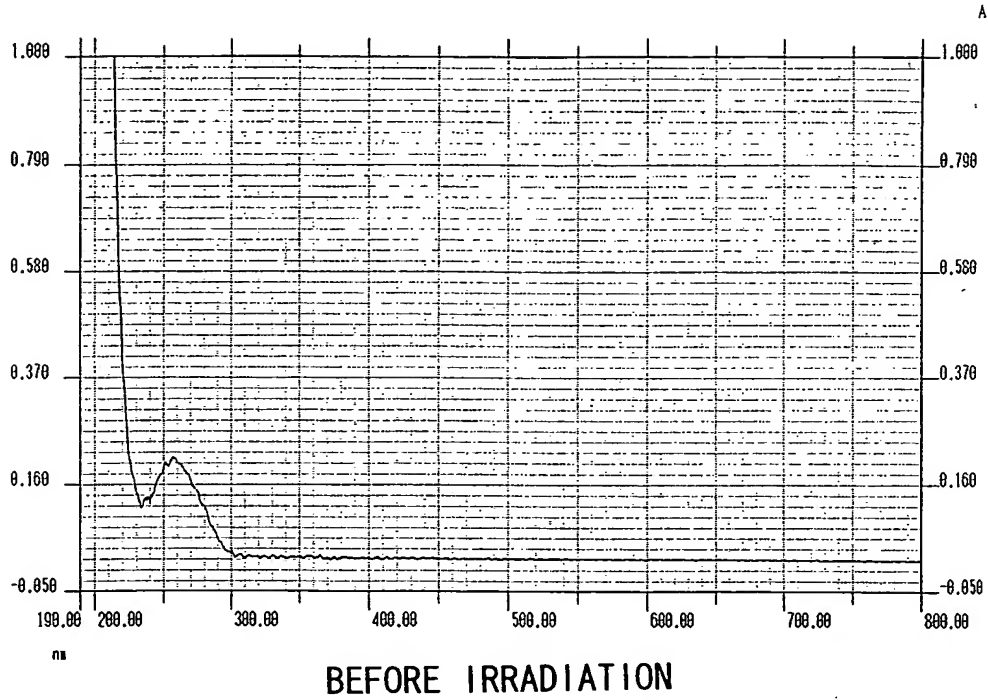
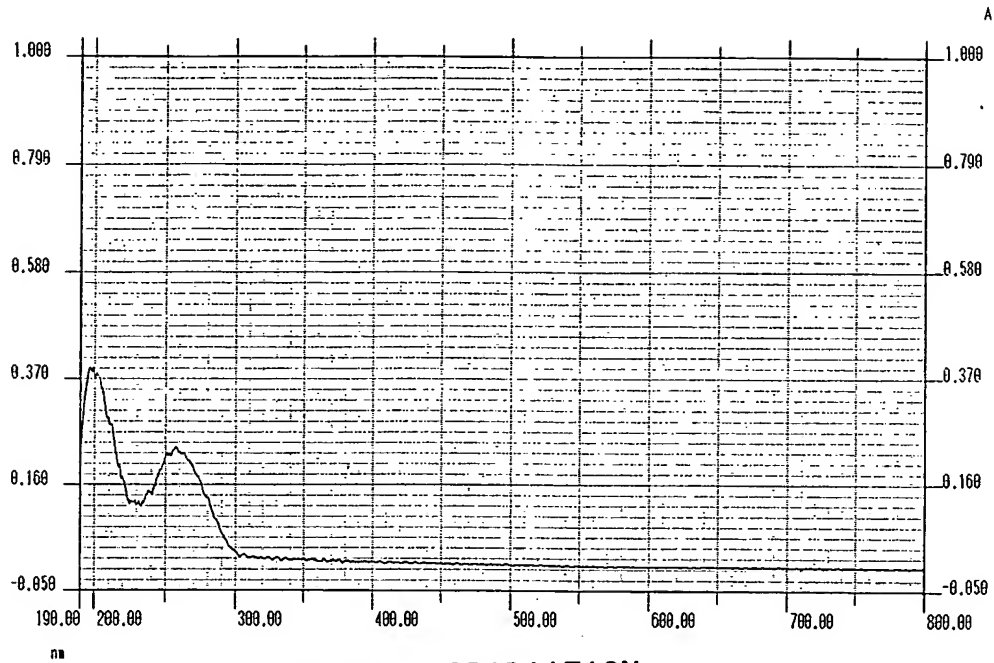
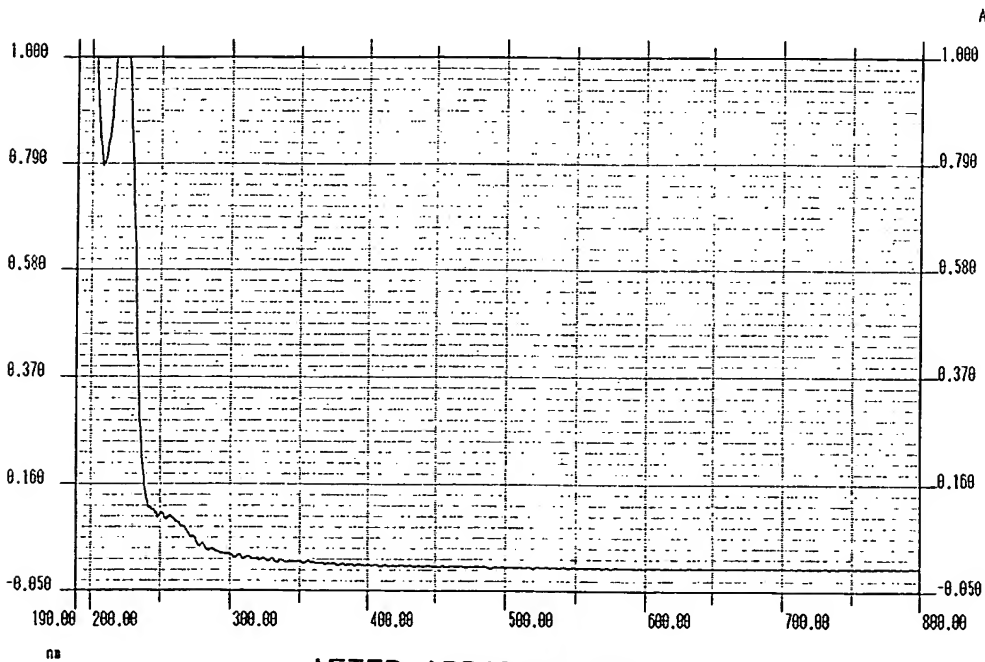


FIG. 10

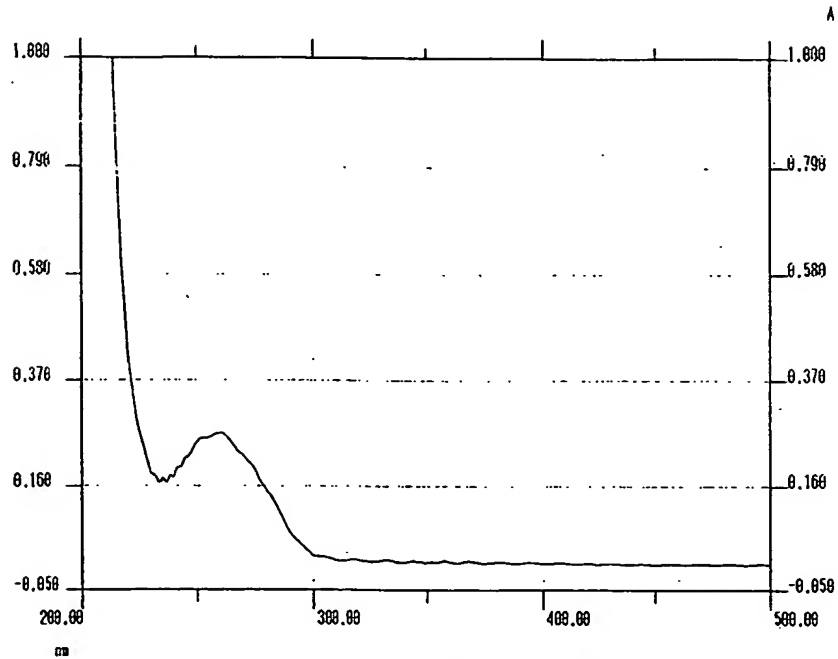


BEFORE IRRADIATION

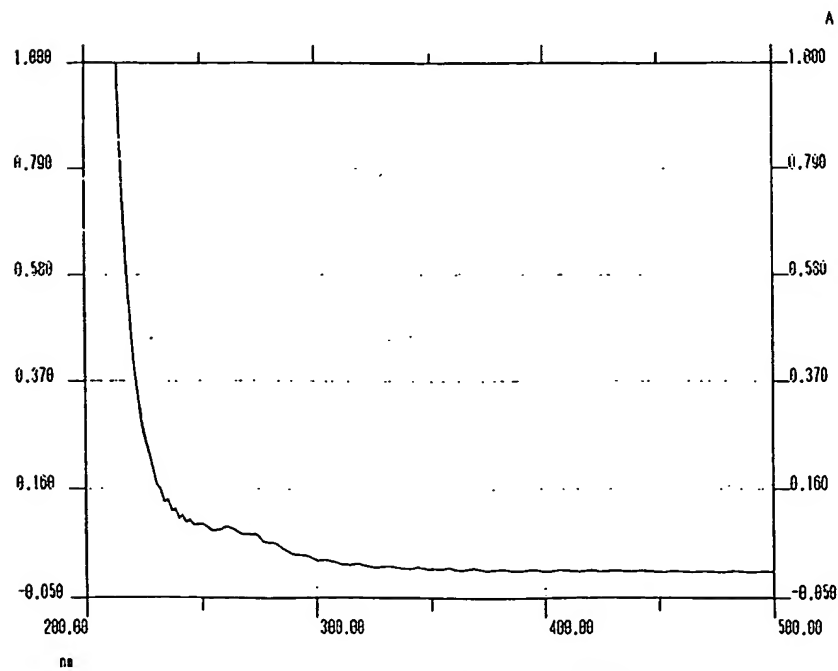


AFTER IRRADIATION

FIG. 11

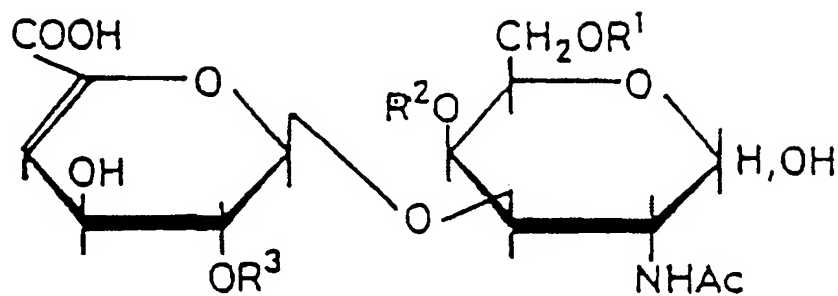


BEFORE IRRADIATION



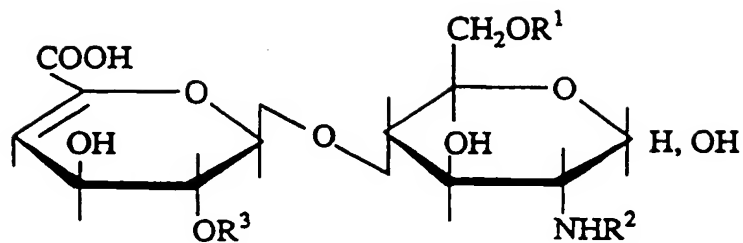
AFTER IRRADIATION

FIG. 12



	R ¹	R ²	R ³
ΔDi-OS	H	H	H
ΔDi-6S	SO ₃ ⁻	H	H
ΔDi-4S	H	SO ₃ ⁻	H
ΔDi-diS _D	SO ₃ ⁻	H	SO ₃ ⁻
ΔDi-diS _E	SO ₃ ⁻	SO ₃ ⁻	H
ΔDi-diS _B	H	SO ₃ ⁻	SO ₃ ⁻
ΔDi-triS	SO ₃ ⁻	SO ₃ ⁻	SO ₃ ⁻

FIG. 13



	R ¹	R ²	R ³
ΔDiHS-0S	H	Ac	H
ΔDiHS-6S	SO ₃ ⁻	Ac	H
ΔDiHS-NS	H	SO ₃ ⁻	H
ΔDiHS-US	H	Ac	SO ₃ ⁻
ΔDiHS-di(6,N)S	SO ₃ ⁻	SO ₃ ⁻	H
ΔDiHS-di(U,N)S	H	SO ₃ ⁻	SO ₃ ⁻
ΔDiHS-di(U,6)S	SO ₃ ⁻	Ac	SO ₃ ⁻
ΔDiHS-tri(U,6,N)S	SO ₃ ⁻	SO ₃ ⁻	SO ₃ ⁻